

Local Board  
of Health  
Annual Report  
1949

20 SEP 1954

# REPORT

of the

## Local Board of Health



THE CITY OF EDMONTON  
ALBERTA

1949



## BOARD OF HEALTH, 1949

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 Catharine R. Rose, Secretary

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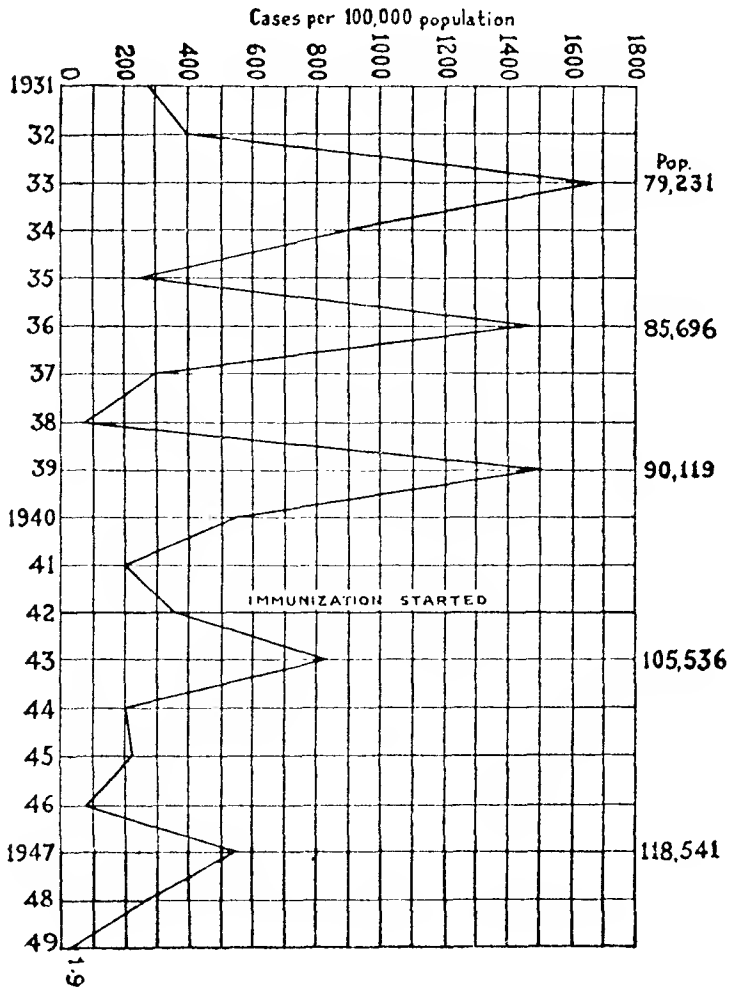
Medical Officer of Health.....	G. M. Little, M.D., D.P.H.
Secretary, Board of Health.....	Rose, Miss C. R.
Public Health Nurse, Sr.....	Griffith, Miss M., R.N.
Public Health Nurse, Sr.....	Christensen, Miss S. C., R.N.
Public Health Nurse, Sr.....	Thompson, Miss M. E., R.N.
Public Health Nurse.....	Lea, Miss T., R.N.
Public Health Nurse.....	Lesik, Mrs. R., R.N.
Public Health Nurse.....	Keeler, Mrs. J., R.N.
Chief Sanitary Inspector.....	Alexander, L. G., C.I.S. (C.)
Sr. Sanitary Inspector.....	Chase, H. G., C.I.S. (C.)
Sanitary Inspector.....	Hill, G. B., C.I.S. (C.)
Sanitary Inspector.....	Kent, Wm., C.I.S. (C.)
Sanitary Inspector.....	Kyle, R. S.
Sanitary Inspector.....	Overton, L. B., C.I.S. (C.)
Sanitary Inspector.....	Powell, E. C., C.I.S. (C.)
Meat Inspector.....	Morrison, Dr. D. M., V.S.
Milk and Dairy Supervisor .....	Meredith, R. B., C.I.S. (C.)
Dairy Inspector.....	Burdess, G., C.I.S., (C)
Stenographer, Sr.....	Derbyshire, Miss K. D.
Stenographer.....	Craig, Miss I.
Stenographer.....	Hansch, Miss P.
Clerk.....	Lang, Miss F.

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## WHOOPING COUGH MORBIDITY

Edmonton, 1931-1949



This disease has been characterized by a high peak of incidence every third year until Sauer-type vaccine was introduced in 1942. Since that time these peaks are markedly lowered and are farther apart. This has occurred during a period of rapid increase and overcrowding in our population.

## Annual Report of the Medical Officer of Health

Chairman and Members,  
Local Board of Health,  
Edmonton, Alberta.

Gentlemen:

Herewith is submitted a report of the activities of our Board and certain other health agencies of the city during 1949:

### BIRTHS:

Our birth rate per 1,000 population showed a slight decrease to 30.8 but the total of 4,246 births, due to an increasing population, is the greatest ever reached and was an increase of 308 from the previous year. A further 2,268 births to non-residents serves to indicate the considerable outside area to which our city hospitals are providing service.

### DEATHS:

The general death rate at 7 per 1,000 population was the lowest since 1939. The two greatest causes of death—heart disease and cancer—both showed a reduced rate.

The infant mortality rate of 23.3 per 1,000 living births was the lowest ever recorded in our city. However, this still meant 99 infant deaths. Of these, 37 per cent were due to prematurity. Many of these latter deaths may be avoided if expectant mothers seek adequate pre-natal care.

### COMMUNICABLE DISEASES:

Serious communicable disease was at a minimum during the year. Two cases of diphtheria in unprotected children served to indicate the need for a persistent effort in prevention. Twenty-eight cases of poliomyelitis gave about the expected number following the extensive epidemic of the previous year. Whooping cough, which in recent years has been our most serious common infection, is giving way to immunization since an effective vaccine became available in 1942. Only three cases of this disease were reported during the year, with no deaths.

Our Baby and Pre-school Clinic continued a valuable service in supervision of infant feeding and physical development of children, and 2,757 home visits were made in connection with special problems. Appreciation of this service was indicated by an increase of 1,885 in attendance to a total of 15,272 for the year.

Our Immunization Clinic is now providing protection against various diseases for a high percentage of the babies and pre-school children of our city. An attendance of 24,811 was an increase of 6,634 over the previous year.

We believe that these clinics are in good part responsible for the very low infant mortality rate in our city.

### SANITATION

Our rapidly increasing population and still crowded dwelling accommodation continues to produce many new problems in sanitation. Lack of moderately priced living space still forces us to tolerate accommodation which is no longer desirable. This is a major source of trouble and worry for many of our citizens, particularly those with children.

Sanitation of restaurants, stores and other food-handling establishments has continued to improve. Our inspectors have done much useful educational work in this connection, and their efforts are producing good results.

Sanitary supervision of our milk supply has been carefully carried out on dairy farms, in milk plants and wagons, and in our laboratory. Samples

tested for purity numbered 14,804. Ninety-nine and one-half per cent of our city milk is now safeguarded by pasteurization.

The city water supply was checked for contamination daily, and also the water of swimming pools when these were in operation.

All animals slaughtered in the two non-exporting abattoirs were inspected by our veterinarian who condemned 31,640 pounds of diseased meats.

#### GENERAL:

We have reached the stage in the development of our city when to maintain adequate public health protection our services must be re-organized and expanded.

Our clinics are operating close to the capacity possible in the present restricted space. These services should be decentralized for the convenience of mothers in outlying areas of our city.

The majority of larger cities across Canada have found it more economical and efficient to consolidate as far as possible the public health services for which the city is responsible. This includes both Board of Health and School Medical Services. Duplication of effort and cost is avoided, and continuity in health supervision of children at all ages is made possible. It would seem rational and most effective at this time to develop our public health services as a co-ordinated whole, rather than as piecemeal projects.

The rapid expansion demanded of civic services generally confronts our municipality with very formidable expenditures in the immediate future; but unless protective health services keep pace with our growing and increasingly concentrated population, a dangerous hazard to the public health will be created.

In view of the unprecedented and difficult situation facing our city, it was to be expected that the Provincial Government would accord our citizens the same assistance in public health protection as is currently given other areas of the province, and that a fair portion of the Dominion Government Grants, distributed through the Provincial Government, would be made available to us. Our request for such assistance has been refused, however, chiefly on the ground that the city has the ability to pay for its own services. This reasoning applies with perhaps even greater force to other areas presently being assisted by the Provincial Government, and also to the provincial services themselves. It is difficult, therefore, to understand the reluctance to provide this urgently needed assistance for our city health services.

To meet the present rapidly increasing demand for preventive health services in our city, without outside assistance, it will be necessary for our Board to request Council to increase substantially the portion of the City's revenue now allocated for this purpose.

Respectfully submitted,

G. M. LITTLE,

MEDICAL OFFICER OF HEALTH

## EXPENDITURE

	1948	1947
1. Salaries .....	\$ 56,385.26	\$ 55,758.72
2. Supplies .....	1,804.88	1,518.28
3. Transportation .....	5,491.88	5,702.17
4/6. Telephones, Sundries, Uniforms .....	1,859.52	1,849.79
7. Pensions .....	5,858.10	4,579.93
	<u>\$ 71,389.72</u>	<u>\$ 69,408.89</u>

## REVENUE

Permits	\$ 412.50	
Meat Inspection	802.40	
Prov. Govt. Grant	2,500.00	
License Dept.	1,500.00	
	<u>\$ 5,214.00</u>	
	5,214.90	5,328.74

Cost per Capita .41	\$ 66,174.82	\$ 64,080.14
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## EXPENDITURE CLASSIFIED—1949

	Administration	Communicable Disease	Dairy Inspection	Food Inspection	Laboratory Service	Public Health Nursing	Sanitation	Vital Statistics	Bath House	TOTALS
1. Salaries .....	\$ 9,602.88	\$5,296.26	\$2,243.73	\$4,256.20	\$3,268.77	\$10,649.39	\$19,950.93	\$1,027.19	\$ 89.91	\$56,385.26
2. Supplies .....	1,112.12	176.25			83.77	133.11	129.75	33.75	136.21	1,804.96
3. Transportation .....	480.00	799.24	1,076.67	300.00	466.55	605.70	1,763.72			5,491.88
4. Telephones .....	116.20	65.76	18.00	17.76	20.64	55.56	82.20			376.12
5. Sundries .....	420.85	254.14	27.80	5.75	19.90	482.96	36.60			1,248.00
6. Uniforms .....						117.39	118.01			235.40
7. Pensions .....	5,848.10									5,848.10
	\$17,580.15	\$6,591.65	\$3,366.20	\$4,579.71	\$3,859.63	\$12,044.11	\$22,081.21	\$1,060.94	\$226.12	\$71,389.72
	24.7%	9.1%	4.7%	6.4%	5.5%	16.9%	31.0%	1.4%	.3%	100%

## SUMMARY OF STATISTICS

Area of City, 26,778 acres including 1,000 acres of water and 2,147 acres in Parks.

	1949	1948	1947	1946	1945
Population.....	137,469	126,609	118,541	114,976	111,745
Persons per acre of land.....	5.0	4.7	4.4	4.2	4.1
Cost per capita.....	.41	.51	.45	.44	.41
School enrolment .....	21,452	19,859	19,071	18,988	17,714
Natural increase of population .....	3,282	2,935	2,920	2,283	1,831
Total births .....	6,514	5,928	6,019	5,465	4,725
Resident births only .....	4,246	3,938	3,838	3,251	2,695
Rate per 1,000 population .....	30.8	31.1	32.3	28.2	24.1
Total stillbirths .....	97	90	109	82	83
Resident stillbirths only .....	57	54	62	51	53
Rate per 1,000 births .....	13.4	13.7	16.1	15.7	19.6
Total deaths .....	1,566	1,609	1,482	1,576	1,425
Resident deaths only .....	964	1,003	918	968	864
Rate per 1,000 population .....	7.0	7.9	7.7	8.4	7.7
Total deaths under 1 year of age.....	161	204	201	197	159
Resident deaths under 1 year of age..	99	126	123	111	84
Rate per 1,000 living births .....	23.3	31.9	32.0	34.1	31.1
Maternal deaths (city only).....	2	1	1	5	6
Rate per 1,000 births .....	.47	.25	.27	1.5	2.2
Marriages .....	2,539	2,490	2,374	2,205	2,098
Rate per 1,000 population.....	18.4	19.6	20.02	19.1	17.4

## VITAL STATISTICS

## Births

	1949	1948	1947
Total births .....	6,514	5,928	6,019
Resident births only .....	4,246	3,938	3,838
Male .....	2,197	2,121	2,008
Female .....	2,049	1,817	1,830
Double births .....	44	42	39
Resident illegitimate births ..	211	188	145
Total illegitimate births .....	441	436	373
Age group of mothers—			
15-19 years .....	249— 5.9%	241— 6.2%	192— 5.0%
20-24 years .....	1,332—31.2%	1,239—31.0%	1,251—32.6%
25-29 years .....	1,426—33.6%	1,317—34.1%	1,240—32.3%
30-34 years .....	813—19.2%	745—18.9%	763—19.9%
Over 34 years .....	426—10.1%	386— 9.8%	392—10.2%

Born in Institutions, 4,239 or 99.8%—born elsewhere, 7.

## Maternal Parentage:

Canada .....	3,759—88.5%	3,463—87.9%	3,095—84.4%
British Isles .....	245— 5.6%	290— 7.4%	473—13.2%
Europe and Asia .....	146— 3.5%	114— 3.0%	161— 4.2%
U.S.A. ....	87— 2.1%	62— 1.5%	92— 2.3%
Other countries .....	9— .3%	9— .2%	17— .4%

## Stillbirths

	1949	1948	1947
Total stillbirths .....	97	90	109
Resident only .....	57	54	62
Male .....	31	30	31
Female .....	26	24	31
Born in institutions .....	57	54	62

## Cause of Foetal deaths:

Dystocia .....	21	13	23
Prematurity .....	6	8	6
Toxaemia of pregnancy ..	1	7	5
Malformation .....	13	8	9
Placenta and membranes ..	9	6	8
Traumatism and overwork ..	....	....	1
Syphilis .....	....	1	....
Other conditions .....	7	11	10

## Deaths

Total deaths .....	1,556	1,609	1,482
Resident deaths only .....	964	1,003	918
Male .....	580	600	553
Female .....	384	403	365
Rate per 1,000 population .....	7.0	7.9	7.7

## Racial Origin

Canada .....	295—30.6%	282—28.1%	279—30.4%
British Isles .....	346—35.9%	399—38.8%	355—38.6%
Europe and Asia .....	180—18.6%	197—19.7%	196—21.4%
U.S.A. ....	54— 5.6%	65— 6.6%	40— 4.4%
Others .....	88— 9.3%	60— 5.8%	48— 5.2%

## INFANT MORTALITY

Total deaths under 1 year .....	161	204	201
Resident deaths under 1 year ..	99	126	123
Male .....	50	80	72
Female .....	49	46	51
Infant mortality rate per 1,000 births .....	23.3	31.9	32.0



## INFANT MORTALITY, 1949

## BY MONTH

## BY AGE

## SEX

	TOTAL	Male	Female	January	February	March	April	May	June	July	August	September	October	November	December	1st Day	1st Week	2nd Week	3rd Week	4th Week	Total Under 1 Month	1-3 Months	4-6 Months	7-9 Months	10-12 Months
13b—Pulmonary Tuberculosis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33b—Influenza	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35—Measles	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44c—Mumps	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74a—Leukemia	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
81a—Simple Meningitis	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1
84a—Mental deficiency	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
107—Broncho pneumonia	9	4	5	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	4	4	1	1
108—Lobar pneumonia	2	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
114e—Other and unspecified diseases of respiratory system	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
118—Other diseases of stomach	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
119a—Diarrhea and enteritis	5	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
122a—Hernia (Diaphragmatic)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
122b—Intestinal obstruction	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
157a—Congenital Hydrocephalus	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
157b—Meningocele	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
157c—Congenital heart	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
157g—Congenital malformation of digestive system	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
157h—Congenital kidney	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
157m—Other and unspecified congenital malformations	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
159—Prematurity	37	20	17	1	1	5	7	3	1	2	5	4	1	2	5	19	14	1	1	1	36	1	1	1	1
160a—Intracranial or spinal hemorrhage	5	3	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1
160c—Other injuries at birth	6	3	3	1	1	1	1	1	1	1	1	1	1	2	1	4	2	1	1	1	6	1	1	1	1
161a—Atelactasis	4	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	3	1	1	1	1	1
161c—Other specified diseases peculiar to 1st year of life	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
195d—Accidental asphyxia	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TOTALS	99	50	49	4	3	10	11	9	8	5	12	11	6	9	11	30	19	8	4	1	63	13	14	7	2



# LOCAL BOARD OF HEALTH

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ABRIDGED INTERNATIONAL CLASSIFICATION OF CAUSES OF DEATH, 1949 (Continued)

	Total	M	F	Under 1	1	2	3	4	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
27. Pneumonia and bronchopneumonia.....	M	47	27	6	1	...	...	...	1	...	...	...	1	...	...	1	...	...	1	2	4	2	3	...	...	...	1	4
28. Other diseases of respiratory system.....	M	17	10	20	5	1	...	...	1	...	...	...	...	...	...	...	...	...	1	2	1	3	2	4	1	1	...	
29. Diarrhea and enteritis.....	F	6	1	7	3	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	...	...	1	...	...	...	...	
30. Appendicitis.....	F	3	2	5	4	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
31. Diseases of liver and biliary passages.....	M	18	13	1	...	...	...	...	1	...	...	...	...	...	...	...	...	1	3	3	1	3	1	1	...	...	...	
32. Other diseases of digestive system.....	M	17	13	5	3	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	2	3	1	1	...	...	...	
33. Nephritis.....	F	20	12	4	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2	5	2	1	1	...	...	...	
34. Other diseases of urinary and genital system.....	M	21	16	8	...	...	...	...	...	...	...	1	...	...	...	...	...	1	1	1	2	1	2	4	3	2	1	...
35. Puerperal infection.....	F	2	...	5	...	...	...	...	...	...	...	...	...	2	...	...	...	...	1	...	...	2	...	...	...	...	...	
37. Diseases of skin, cellular tissue, bones, and organs of movement.....	M	2	...	2	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	
38. Congenital malformations, debility, premature birth, diseases peculiar to the first year of life.....	F	68	38	37	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
39. Senility, old age.....	M	16	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	2	2	1	...	...	
40. Suicide.....	F	10	6	7	...	...	...	...	...	...	...	...	...	...	1	1	1	...	3	...	...	...	...	...	...	...	...	
41. Homicide.....	M	3	3	4	...	...	...	...	...	...	...	...	...	1	1	1	...	2	...	1	...	...	...	...	...	...	...	
42. Automobile accidents.....	F	20	16	...	...	...	...	...	1	1	1	4	2	...	...	...	...	1	1	3	1	...	...	...	...	...	...	
43. Other violent or accidental deaths.....	M	39	31	4	1	...	...	...	3	2	3	1	1	2	1	1	2	1	4	1	1	2	1	1	...	...	...	
44. Causes of death ill-defined, unknown, unspecified.....	F	...	...	8	1	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	
	M	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	
Total Male.....	M	580	...	50	3	2	2	2	6	3	2	11	3	4	8	8	21	32	46	71	79	81	62	33	31	8	5	2
Total Female.....	F	384	49	4	...	1	...	...	4	2	1	3	2	6	10	8	12	16	30	33	39	38	45	36	33	10	2	...
Total Deaths.....		964	580	384	99	7	2	3	2	10	5	3	14	10	18	16	33	48	76	104	118	119	107	69	64	18	7	2

## PRINCIPAL CAUSES OF DEATH, 1949

		1949					1948				
		Total	Male	Female	% of Total Deaths	Rate per 100M Population	Total	Male	Female	% of Total Deaths	Rate per 100M Population
90—95	Diseases of the heart .....	287	183	104	29.7	208.7	291	191	100	29.0	238.5
45—55	Cancer and other malignant tumors .....	159	91	68	16.4	115.6	160	87	73	15.9	126.3
83	Intracranial lesions of vascular origin .....	101	50	51	12.5	74.1	113	54	59	11.1	89.2
163—198	External causes .....	73	57	16	7.4	53.0	57	40	17	5.6	45.8
157—161	Congenital debility, premature birth, diseases peculiar to 1st year of life.....	68	38	30	7.0	49.4	87	55	32	8.6	60.8
107—108	Pneumonia, broncho pneumonia.....	47	27	20	4.8	41.4	48	29	19	4.7	38.7
13—22	Tuberculosis, all forms .....	25	20	5	2.5	18.1	33	18	15	2.2	26.0
130—132	Nephritis .....	20	12	8	2.1	14.5	17	8	9	1.6	13.4
162	Senility .....	16	9	7	1.6	11.6	6	2	4	.6	4.7
61	Diabetes Mellitus .....	11	4	7	1.1	8.0	8	2	6	.7	6.3
		807	491	316	83.6		820	486	334	81.7	

## MORTALITY FROM HEART DISEASE

Year	Total Deaths	Deaths From Heart Disease	Percentage of Total Deaths	Rate per 100M Population
1949.....	964	287	29.7	208.7
1948.....	1003	291	29.0	238.5
1947.....	918	260	25.9	219.3
1946.....	968	262	27.0	227.8
1945.....	864	232	26.8	207.6

## MORTALITY FROM CANCER

Year	Total Deaths	Deaths From Cancer	Percentage of Total Deaths	Rate per 100M Population
1949.....	964	159	16.4	115.6
1948.....	1003	160	15.9	126.3
1947.....	918	143	15.5	120.6
1946.....	968	146	15.1	126.9
1945.....	864	148	17.1	132.4

## MORTALITY FROM INTRACRANIAL LESIONS OF VASCULAR ORIGIN

Year	Total Deaths	Deaths From This Cause	Percentage of Total Deaths	Rate per 100M Population
1949.....	964	101	12.5	74.1
1948.....	1003	113	11.1	89.2
1947.....	918	85	9.2	71.7
1946.....	968	97	10.0	84.3
1945.....	864	93	10.7	83.2

## MORTALITY FROM TUBERCULOSIS

Year	Total Deaths	Deaths From Tuberculosis	Percentage of Total Deaths	Rate per 100M Population
1949.....	964	25	2.5	18.1
1948.....	1003	33	3.2	26.0
1947.....	918	28	3.0	23.6
1946.....	968	30	3.0	26.0
1945.....	864	28	3.2	25.0

## MORTALITY FROM PNEUMONIA

Year	Total Deaths	Deaths From Pneumonia	Percentage of Total Deaths	Rate per 100M Population
1949.....	964	47	4.8	41.4
1948.....	1003	48	4.7	38.7
1947.....	918	56	6.1	47.2
1946.....	968	49	5.0	42.6
1945.....	864	43	4.9	39.3

**MORTALITY FROM EXTERNAL CAUSES**

Year	Total Deaths	Deaths From External Causes	Male	Female	Suicide	Homicide	Automobile Accidents	Other Accidents	Percentage of Deaths	Rate Per 1000 Population
1949 .....	964	73	57	16	10	3	20	40	7.4	53.0
1948 .....	1003	57	40	17	6	....	17	34	5.6	45.8
1947 .....	918	56	46	10	8	....	17	31	6.1	47.2
1946 .....	968	83	64	19	25	1	17	40	8.3	72.2
1945 .....	864	59	42	17	9	....	11	39	6.8	52.8

**ISOLATION HOSPITAL**

During the year 1949, six hundred and seven patients were admitted. There were 17 outpatients and 12 patients died.

Scarlet Fever .....	111	Measles .....	119
Diphtheria .....	15	Mumps .....	20
Diphtheria carriers .....	5	Rubella .....	16
Poliomyelitis .....	52	Whooping cough .....	6
Meningitis (meningococcic) ....	7	Vincent's Angina .....	10
Meningitis (tuberculosis) .....	3	Strep. Throat .....	20
Tuberculosis .....	13	Ringworm .....	10
Paratyphoid fever .....	1	Syphilis .....	4
Erysipelas .....	22	Gonorrhoea .....	8
Chickenpox .....	11	Vaginitis .....	1
The deaths included:		Other diseases .....	150
Diphtheria .....	3		
Meningitis (T.B.) .....	3	Tuberculosis .....	1
Measles .....	1	Septicemia .....	1
Whooping cough .....	1	Others .....	2

**IMMUNIZATION RECORD—1949**

	Board of Health	Edmonton Public School Board	Edmonton Separate School Board	Private Physicians
<b>Diphtheria</b>				
1st Dose .....	3,708	1,619	243	690
Re-inforcing Doses .....	686	4,248	....	....
Total Doses .....	14,199	8,303	243	....
<b>Whooping Cough</b>				
1st Dose .....	3,456	829	....	537
Reinforcing Dose .....	2,261	170	....	....
Total Doses .....	15,078	2,088	....	....
<b>Scarlet Fever</b>				
1st Dose .....	603	....	....	21
Reinforcing Dose .....	320	....	....	....
Total Doses .....	2,932	....	....	....
<b>Smallpox</b> .....	2,715	3,142	248	1,000
<b>Typhoid</b>				
1st Dose .....	140	....	....	33
Reinforcing dose .....	....	....	....	....
Total Doses .....	422	....	....	....
<b>Tetanus</b>				
1st Dose .....	75	....	....	16
Total Doses .....	247	....	....	....
<b>T.A.B.T.</b>				
1st Dose .....	58	....	....	7
Total Doses .....	173	....	....	....
<b>Typhus</b>				
1st Dose .....	5	....	....	....
Total Doses .....	10	....	....	....
<b>Cholera</b>				
1st Dose .....	1	....	....	....
Total Doses .....	2	....	....	....
<b>Dick Test</b> .....	157	....	....	17
<b>Schick Test</b> .....	102	....	....	1
<b>Anti-Measles Serum</b> .....	....	....	....	3



## COMMUNICABLE DISEASE BY AGE, 1949

	City Cases	Male	Female	Under 1	1/4	5/14	15/19	Over 20	Not Stated	Non- resident
Chickenpox.....	1,209	597	612	59	373	681	19	37	40	7
Diphtheria.....	2	1	1	1	1	1	.....	.....	.....	2
Diphtheria Carriers.....	2	.....	2	.....	3	.....	.....	.....	.....	8
Dysentery (Amoebic).....	3	2	1	.....	.....	.....	.....	.....	.....	1
Dysentery (others).....	.....	.....	.....	.....	.....	.....	1	16	.....	10
Erysipelas.....	17	7	10	.....	.....	.....	.....	3	1	1
Food Poisoning.....	5	3	2	.....	.....	.....	.....	.....	.....	.....
Infectious Hepatitis.....	1	1	.....	.....	1	.....	.....	.....	.....	.....
Infectious Mononucleosis.....	5	5	.....	.....	.....	.....	.....	2	2	.....
Malaria.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Measles.....	3,080	1,483	1,597	111	1,144	1,677	45	56	47	51
Meningitis (mening.).....	5	3	2	3	1	.....	.....	.....	.....	2
Mumps.....	424	228	196	5	79	274	9	36	21	4
Paratyphoid.....	.....	.....	.....	.....	.....	.....	.....	10	.....	1
Polioyelitis.....	28	12	16	.....	5	13	.....	.....	.....	22
Ringworm (Microsporan audouinii).....	7	6	1	.....	2	5	.....	.....	.....	.....
Ringworm (others).....	4	2	2	.....	.....	4	.....	.....	.....	.....
Rubella.....	768	385	383	20	135	514	61	19	19	6
Scarlet Fever.....	121	59	62	.....	46	65	4	4	2	22
Septic Sore Throat.....	7	6	1	.....	.....	2	1	2	.....	.....
Trachoma.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Tuberculosis (pulm.).....	91	45	46	.....	2	.....	3	47	39	13
Tuberculosis (other forms).....	12	5	7	.....	1	.....	.....	.....	11	.....
Typhoid.....	1	1	.....	.....	.....	.....	.....	1	.....	.....
Typhoid Carriers.....	1	1	.....	.....	.....	.....	.....	.....	.....	2
Undulant Fever.....	2	1	.....	.....	.....	.....	.....	2	.....	3
Vincent's Angina.....	4	1	3	.....	1	2	.....	.....	1	.....
Whooping Cough.....	3	1	2	2	1	.....	.....	.....	.....	.....
Veneral Disease.....	703	472	231	.....	1	3	72	611	16	.....
Gonorrhoea.....	83	42	41	.....	1	1	6	61	14	.....
Syphilis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TOTALS.....	6590	3369	3221	201	1796	3245	223	909	216	160

DEATHS.....	41	30	11	7	2	1	.....	31	.....	.....
Diphtheria.....	1	.....	1	.....	1	.....	.....	.....	.....	.....
Influenza.....	3	1	2	.....	1	.....	.....	.....	.....	.....
Lobar Pneumonia.....	6	6	.....	2	.....	1	.....	3	.....	.....
Measles.....	1	.....	1	1	.....	.....	.....	.....	.....	.....
Mumps.....	1	.....	1	1	.....	.....	.....	.....	.....	.....
Syphilis.....	4	3	1	.....	.....	.....	.....	4	.....	.....
Tuberculosis (pulm.).....	23	18	5	1	.....	.....	.....	22	.....	.....
Tuberculosis (other forms).....	2	2	.....	.....	.....	.....	.....	2	.....	.....
TOTALS.....	41	30	11	7	2	1	.....	31	.....	.....

## COMMUNICABLE DISEASE BY SEASON AND SEX. 1949

City	Cases		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Non-resident Cases
	Male	Female													
Chickenpox.....	1209	597	612	232	109	60	38	35	57	67	56	49	130	195	181
Diphtheria.....	2	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	7
Diphtheria Carriers.....	2	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2
Dysentery (Amoebic).....	3	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8
Erysipelas.....	17	7	10	2	2	1	2	1	1	3	2	.....	2	2	1
Food Poisoning.....	5	3	2	.....	.....	.....	.....	.....	3	1	1	.....	.....	.....	3
Infectious Hepatitis.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Infectious Mononucleosis.....	5	5	1	1	.....	.....	1	2	.....	.....	1	.....	.....	.....	.....
Malaria.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Measles.....	3080	1483	1597	483	684	485	353	316	246	100	37	17	44	107	208
Meningitis (mening.).....	5	3	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51
Mumps.....	424	228	196	38	33	42	11	19	12	9	5	8	50	63	134
Paratyphoid.....	28	12	16	.....	.....	.....	1	.....	.....	1	5	13	5	3	22
Polioomyelitis.....	7	6	1	.....	.....	4	1	.....	1	1	.....	.....	.....	.....	.....
Ringworm (microsporan audouini).....	4	2	2	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
Rubella.....	768	385	383	15	9	14	7	49	104	50	23	37	39	114	307
Scarlet Fever.....	121	59	62	7	11	10	11	8	6	2	7	7	9	19	24
Septic Sore Throat.....	7	6	1	.....	.....	1	.....	2	1	.....	.....	.....	.....	3	.....
Trachoma.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Tuberculosis (pulm.).....	91	45	46	10	.....	.....	.....	11	3	29	8	.....	12	14	4
Tuberculosis (other forms).....	12	5	7	.....	.....	1	.....	1	.....	4	1	.....	1	1	13
Typhoid.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Typhoid Carriers.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Undulant Fever.....	2	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	2
Vincent's Angina.....	4	1	3	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
Whooping Cough.....	3	1	2	.....	.....	1	.....	.....	.....	1	.....	1	.....	.....	1
Veneral Disease.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gonorrhoea.....	703	472	231	49	52	46	44	51	52	42	61	90	67	73	76
Syphilis.....	83	42	41	4	3	13	15	9	11	6	8	4	6	4	.....
<b>TOTALS.....</b>	<b>6590</b>	<b>3369</b>	<b>3221</b>	<b>844</b>	<b>905</b>	<b>680</b>	<b>484</b>	<b>505</b>	<b>497</b>	<b>314</b>	<b>219</b>	<b>232</b>	<b>368</b>	<b>599</b>	<b>942</b>

DEATHS	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Diphtheria.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Influenza.....	3	1	2	.....	.....	1	.....	.....	1	.....	.....	.....	.....	1	.....
Lobar Pneumonia.....	6	6	.....	.....	.....	2	1	2	.....	.....	.....	.....	1	.....	.....
Measles.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
Mumps.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Syphilis.....	4	3	1	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....
Tuberculosis (pulm.).....	23	18	5	1	3	4	.....	1	2	.....	2	3	1	4	2
Tuberculosis (other forms).....	2	2	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....
<b>TOTALS.....</b>	<b>41</b>	<b>30</b>	<b>11</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>.....</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>3</b>



## TUBERCULOSIS CONTROL

<b>Kinsmen's Club Serice:</b>	1949	1948
Total visits by Nurse .....	1986	2585
Visits to T.B. Cases .....	610	709
Visits to suspect cases .....	123	125
Visits to contact cases .....	1102	1596
Co-operative visits .....	107	115
Not seen, moved, etc. ....	44	40

**Provincial Tuberculosis Division:**

Examinations:		
Active cases .....	91	61
Suspects .....	164	123
Contacts .....	569	339
Non-Contacts .....	741	640
Total examinations .....	3891	3210
Total X-rays .....	3169	3420
Tuberculin tests made .....	1670	1703
Tuberculin tests positive .....	516	585
Mobile X ray clinic .....		61699



## WELL BABY AND PRE-SCHOOL CLINIC

	1949	1948	1947	1946	1945
Number of clinics .....	249	232	240	200	200
Attendance under 1 year of age ..	10429	9594	10260	....	....
Attendance over 1 year of age ....	4833	3793	1690	....	....
Total attendance .....	15272	13387	11950	8167	7420
Average attendance .....	61	58	50	41	37
New admissions under 1 year ....	2768	2417	2564	1881	1523
New admissions over 1 year .....	829	784	611	328	281
re-admissions .....	121	123	109	97	91
Referred to Family Doctor .....	135	112	107	31	25
Out-of-town cases .....	356	335	225	153	166

Dr. Mildred Newell and Dr. Margaret Collins were in attendance at 82 clinics.

There were 2,757 home visits made. These were to feeding and other problem cases and to as many of the youngest new babies admitted, as possible. 3559 telephone calls in regard to feedings, etc., were answered.

On 176 days during the year students were present for observation. These were made up as follows:

24 B.Sc. and Public Health Nurses from the University of Alberta.

92 student nurses from the University Outdoor Clinic and Royal Alexandra Hospital.

41 medical students.

5 new staff members, Provincial Department of Health.



## VICTORIAN ORDER OF NURSES

	1949	1948	1947	1946	1945
Pre-natal visits .....	165	295	171	198	422
Obstetrical (nursing care) .....	9	6	11	0	8
Obstetrical (advice) .....	1353	1470	1447	1333	1182
Newborn (nursing care) .....	559	711	754	657	559
Newborn (health supervision) ....	1576	1358	1303	1796	1654
Pre-natal clinics .....	....	50	50	59	51
Total attendance .....	391	550	528	577	768
Average attendance .....	....	11	10	12	15
Mothers enrolled .....	58	114	114	115	116

## SANITATION

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### INSPECTIONS:

Dwellings .....	423	771
Hotels, lodging houses, apartment blocks .....	260	218
Schools, blocks, public buildings .....	74	12
Stores, business establishments .....	98	86
Food handling establishments .....	6,600	5,562
Garbage cans, etc. ....	746	723
Streets, lanes, yards, dumps, etc. ....	326	398
Miscellaneous .....	1,930	1,738
	<u>10,457</u>	<u>9,508</u>
Re-inspections .....	424	382

### NOTICES:

Written .....	381	281
Verbal .....	958	1,540
Garbage .....	180	311

### COMPLAINTS:

Received from public .....	639	609
Justified .....	576	543
Received from other departments .....	12	15
Referred to other departments .....	77	82

The complaints were made up as follows:

Garbage, streets, lanes, etc. ....	232	218
Vermin .....	31	37
Housing, plumbing and drainage .....	250	243
Food and drink .....	53	49
Miscellaneous .....	73	63

### LICENSES:

License applications investigated .....	2,952	2,824
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### PLUMBING:

Sewer and water notices issued .....	15	12
Sewer and water installed, buildings removed, etc. ....	14	22
Extension of time granted .....	9	29
Plumbing permits issued .....	2,990	1,928
Plumbing permits issued for old buildings .....	41	36
Alterations to existing plumbing (fixtures) .....	1,630	630
Privies eliminated through installation of plumbing .....	41	36
Number of septic tanks installed .....	19	14

**DISINFESTING STATION:**

Baths .....	3,401	3,182
Verminous .....	....	6
Scabies .....	151	198
Disinfested .....	151	205
No. of Men Washing Clothes .....	2,497	2,419
Units Washed .....	7,491	7,257

**SCAVENGING CLEAN-UP WORK**

Refuse removed during Clean-up Week (cubic yards) .....	12,624	10,360
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**ANIMALS, BARNS, STYES:**

Cow owners .....	247	305
Hog owners .....	78	83
Goat owners .....	23	23
Fur farm owners .....	76	86

**FOOD:**

Samples submitted to Provincial Laboratory .....	15	20
Foodstuffs condemned (lbs.) .....	27,688	35,937

**WATER:**

Water samples taken .....	20	54
Negative .....	12	24
*Positive .....	8	29
*Suspicious .....	....	1
Wells chlorinated .....	1	23
Wells placarded .....	....	3
Ice Samples .....	1	5
Rinse water samples .....	....	22

\*—Wells condemned or further samples taken after chlorination.

**HOUSING:**

Inspections of 423 dwellings and 260 hotels, lodging houses, apartment blocks, etc., were made for vermin, overcrowding and other insanitary conditions and the necessary notices issued.

**POISON GAS FUMIGATION:**

Hydrocyanic acid gas eliminated vermin from ten establishments.

**ENFORCEMENT OF REGULATIONS:**

Prosecutions .....	1	....
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Owner of house fined \$5.00 and costs or seven days for failing to maintain the plumbing system in good working order.

## FOOD INSPECTION



### MEATS INSPECTED AND CONDEMNED

<b>Beef</b>	1949	1948	1947
No. of carcasses inspected .....	2,763	3,026	3,942
Carcasses condemned .....	21	20	7
Portions condemned .....	234	253	385
Weight (lbs.) of carcasses and portions condemned	13,380	13,340	9,390

<b>Veal</b>			
No. of carcasses inspected .....	2,168	1,886	2,953
Carcasses condemned .....	4	10	4
Portions condemned .....	69	35	64
Weight (lbs.) of carcasses and portions condemned	1,955	2,440	1,690

<b>Mutton</b>			
No. of carcasses inspected .....	404	367	912
Carcasses condemned .....	9	8	9
Portions condemned .....	15	2	50
Weight (lbs.) of carcasses and portions condemned	645	430	650

<b>Pork</b>			
No. of carcasses inspected .....	2,798	2,831	5,699
Carcasses condemned .....	21	33	58
Portions condemned .....	834	760	1,965
Weight (lbs.) of carcasses and portions condemned	15,660	16,540	35,535

<b>Totals</b>			
No. of carcasses inspected .....	8,133	8,110	13,506
Carcasses condemned .....	55	71	78
Portions condemned .....	1,152	1,050	2,464
Weight (lbs.) of carcasses and portions condemned	31,720	32,750	47,265

### CARCASSES FOUND TO BE INFECTED WITH T.B.

<b>Beef</b>			
Infected .....	18	25	16
Percent .....	.65	.82	.40

<b>Pork</b>			
Infected .....	556	515	1,128
Percent .....	19.83	18.20	19.77

## CHIEF CAUSES OF CONDEMNATION, 1949

<b>Beef:</b>	Carcasses	Portions	Weight Lbs.
Abscess .....	....	62	875
Abscess multiple .....	2	....	725
Actinomycosis .....	1	95	2,265
Bruised .....	4	8	1,910
Tuberculosis .....	....	24	445
Pneumonia .....	6	....	2,900
Parasites .....	....	20	220
Emaciation .....	3	....	1,250
Dying condition .....	1	....	550
Peritonitis .....	1	....	450
Gangrene .....	1	....	550
Xanthosis .....	1	....	375
Miscellaneous (mastitis, jaundice, congestion, adhesions .....	1	25	865
	21	234	13,380
<b>Veal</b>			
Abscess .....	....	24	275
Actinomycosis .....	....	15	225
Parasites .....	....	11	110
Tuberculosis .....	....	5	65
Emaciation .....	1	....	225
Pneumonia .....	3	....	850
Miscellaneous (adhesions, jaundice, bruised, congestion) .....	....	14	205
	4	69	1,955
<b>Mutton</b>			
Abscess multiple .....	3	....	190
Bruised .....	1	2	120
Emaciation .....	2	....	110
Pneumonia .....	2	....	130
Miscellaneous (parasites, peritonitis) .....	1	13	95
	9	15	645
<b>Pork</b>			
Abcess multiple .....	6	....	1,175
Arthritis .....	2	....	325
Bruised .....	3	15	895
Contamination .....	....	52	870
Parasites .....	....	83	370
Pneumonia .....	1	2	425
Tuberculosis .....	6	614	10,075
Miscellaneous (abscess, adhesions, peritonitis, sexual odor, enteritis, inf. rhinitis) .....	3	68	1,525
	21	834	15,660

## DISEASED ANIMALS

	1949	1948	1947
Beef .....	221	245	329
Veal .....	62	38	63
Mutton .....	16	6	37
Pork .....	657	605	1,486
Total amount of meat condemned .....	31,640	32,750	47,265

## FOODSTUFFS CONDEMNED BY INSPECTORS

Canned goods .....	....	1	43
Fruit and vegetables .....	13	30,085	....
Meat .....	185	....	140
Fish .....	....	65	....
Poultry .....	108	270	167
Damaged by fire, flood, etc. ....	27,334	5,502	1,789
Sundries .....	48	14	6
Total (lbs.) .....	27,688	35,937	2,145



## MILK AND WATER, 1949

Inspections:	Total No. Premises	No. of Inspections
Producer-distributors, raw milk .....	2	25
Producer-shippers, milk .....	336	392
Pasteurization plants .....	4	165
Vehicles .....		208
Others, complaints, etc. ....		9
<b>Licenses and permits</b>		
Retail milk certificates issued .....		521
Dairy licenses issued .....		376
Dairy licenses refused .....		4
Dairy licenses suspended temporarily .....		339
Permits issued to cow keepers in the city .....		297
<b>Samples</b>		
Milk samples taken, retail .....		827
Milk samples taken, shippers .....		14,804
Cream samples taken .....		22
Special milk samples .....		5
Special cream samples .....		24
Chocolate milk samples .....		82
Ice cream samples .....		30
<b>TESTS—Milk</b>		
Standard plate counts .....		827
Coliform tests .....		21
Phosphatase tests .....		676
Methylene blue tests .....		14,804
Butter fat tests .....		384
Sediment tests .....		408
<b>Restaurants</b>		
Swab tests of utensils .....		203
<b>Water</b>		
Standard plate counts .....		292
Coliform tests .....		292
Chlorine content checks .....		260
Raw river water plate counts .....		29
<b>Swimming Pools</b>		
Plate counts .....		418
Coliform tests .....		418

No. of producer-distributors of raw milk, two. The Edmonton milk supply is now 99.5 percent pasteurized.

Daily per capita milk consumption approximately .85 pints.

The swab tests noted above were taken, using the "Jamieson Technique" on restaurant utensils as educational work. The visual demonstrations have been well received by both the restaurant operators and employees. They have been instrumental in improving methods of handling and practical sterilization of utensils in our eating establishments.





